TITLE INDEX TO VOLUME 16 – 1980

Achieving Urban Water Conservation (Report)
– *J. Ernest Flack* 139
Acute Residual Toxicity of Several Disinfectants in Domestic and Industrial Waste Water
– *Ronald W. Ward and G. Michael DeGraeve* 41
Analysis of Detention Basin Systems
– *Russell G. Main* 824
Discussion: "Analysis of Uncertainty in Flood Plain Mapping," by Stephen J. Burges
– *Ronald A. Chadderton and Arthur C. Miller* 752
Reply to Discussion: "Analysis of Uncertainty in Flood Plain Mapping," by Ronald A. Chadderton and Arthur C. Miller
– *Stephen J. Burges* 758
Application of the Continuous Stormwater Pollution Simulation System (CSPSS): Philadelphia Case Study
– *Ronald L. Wycoff and Udai P. Singh* 463
Application of the HEC-4 Monthly Stream Flow Simulation Model
– *Nageshwar Rao Bhaskar and Elbert E. Whitlatch, Jr.* 587
An Approach to Marginal Economic Analysis of Hydrometric Data Collection
– *T. A. McMahon and D. L. R. Cronin* 414
Auburn Dam: A Case Study of Water Policy and Economics
– *John W. Duffield* 226

Capacity Expansion Planning Model for Waste Water Treatment and I/I Control
– *George Zukovs and Barry J. Adams* 601
Discussion: "Channel Modification and Macroinvertebrate Community Diversity in Small Streams," by Gene A. Whitaker, Richard H. McCuen, and John Brush
– *Landon T. Ross and Leonard Groeneveld* 755
Reply to Discussion: "Channel Modification and Macroinvertebrate Community Diversity in Small Streams," by Landon T. Ross and Leonard Groeneveld
– *Richard H. McCuen* 759
Coliforms and Water Quality: Use of Data in Project Design and Operation
– *Kent W. Thornton, Joe F. Nix, and Jimmy D. Bragg* 86
A Comparison of Methods and Instrumentation of Biological Early Warning Systems
– *John Carins, Jr. and David Gruber* 261
Comparison of Models for Forecasting Snowmelt Runoff Volumes
– *Mark E. Hawley, Richard H. McCuen, and Albert Rango* 914
A Comparison of Statistical Tests on the Extreme-Value Type-1 Distribution
– *Huynh Ngoc and Anat Arbhabhirama* 856
A Conceptual Framework for Evaluating Agricultural Water Conservation Potentials
– *David C. Davenport and Robert M. Hagan* 717
Conjunctive Management of Water Resources in the Context of Texas Water Law
– *Otis W. Templer* 305
Correlation of Selected Well Water Quality Parameters With Soil and Aquifer Hydrologic Properties
– *Harry I. Nightingale and William C. Bianchi* 702
Discussion: "Cost Analysis of Water and Waste Water Treatment Processes in Developing Countries," by Michael I. Muiga and George W. Reid
– *Harold H. Leich* 556
Covering Bottom Sediments as a Lake Restoration Technique
– *G. Dennis Cooke* 921

A Decision Theory Approach to Earth Dam Classification
– *Richard H. McCuen* 546
Deep Well Disposal of Secondary Effluent in Dade County, Florida
– *Udai P. Singh, J. I. Garcia-Bengochea, and C. Ross Sproul* 812
Delivery of Suspended Sediment and Pollutants From Nonpoint Sources During Overland Flow
– *Vladimir Novotny* 1057
Demand Signals for Urban Drainage and Flood Control Projects
– *Neil S. Grigg and Harold A. Vance* 69
Development of Federal Reserve Rights
– *John W. Bird* 837

TITLE INDEX TO VOLUME 16 – 1980

Achieving Urban Water Conservation (Report)
– *J. Ernest Flack* 139
Acute Residual Toxicity of Several Disinfectants in Domestic and Industrial Waste Water
– *Ronald W. Ward and G. Michael DeGraeve* 41
Analysis of Detention Basin Systems
– *Russell G. Main* 824
Discussion: "Analysis of Uncertainty in Flood Plain Mapping," by Stephen J. Burges
– *Ronald A. Chadderton and Arthur C. Miller* 752
Reply to Discussion: "Analysis of Uncertainty in Flood Plain Mapping," by Ronald A. Chadderton and Arthur C. Miller
– *Stephen J. Burges* 758
Application of the Continuous Stormwater Pollution Simulation System (CSPSS): Philadelphia Case Study
– *Ronald L. Wycoff and Udai P. Singh* 463
Application of the HEC-4 Monthly Stream Flow Simulation Model
– *Nageshwar Rao Bhaskar and Elbert E. Whitlatch, Jr.* 587
An Approach to Marginal Economic Analysis of Hydrometric Data Collection
– *T. A. McMahon and D. L. R. Cronin* 414
Auburn Dam: A Case Study of Water Policy and Economics
– *John W. Duffield* 226

Capacity Expansion Planning Model for Waste Water Treatment and I/I Control
– *George Zukovs and Barry J. Adams* 601
Discussion: "Channel Modification and Macroinvertebrate Community Diversity in Small Streams," by Gene A. Whitaker, Richard H. McCuen, and John Brush
– *Landon T. Ross and Leonard Groeneveld* 755
Reply to Discussion: "Channel Modification and Macroinvertebrate Community Diversity in Small Streams," by Landon T. Ross and Leonard Groeneveld
– *Richard H. McCuen* 759
Coliforms and Water Quality: Use of Data in Project Design and Operation
– *Kent W. Thornton, Joe F. Nix, and Jimmy D. Bragg* 86
A Comparison of Methods and Instrumentation of Biological Early Warning Systems
– *John Carins, Jr. and David Gruber* 261
Comparison of Models for Forecasting Snowmelt Runoff Volumes
– *Mark E. Hawley, Richard H. McCuen, and Albert Rango* 914
A Comparison of Statistical Tests on the Extreme-Value Type-1 Distribution
– *Huynh Ngoc and Anat Arbhabhirama* 856
A Conceptual Framework for Evaluating Agricultural Water Conservation Potentials
– *David C. Davenport and Robert M. Hagan* 717
Conjunctive Management of Water Resources in the Context of Texas Water Law
– *Otis W. Templer* 305
Correlation of Selected Well Water Quality Parameters With Soil and Aquifer Hydrologic Properties
– *Harry I. Nightingale and William C. Bianchi* 702
Discussion: "Cost Analysis of Water and Waste Water Treatment Processes in Developing Countries," by Michael I. Muiga and George W. Reid
– *Harold H. Leich* 556
Covering Bottom Sediments as a Lake Restoration Technique
– *G. Dennis Cooke* 921

A Decision Theory Approach to Earth Dam Classification
– *Richard H. McCuen* 546
Deep Well Disposal of Secondary Effluent in Dade County, Florida
– *Udai P. Singh, J. I. Garcia-Bengochea, and C. Ross Sproul* 812
Delivery of Suspended Sediment and Pollutants From Nonpoint Sources During Overland Flow
– *Vladimir Novotny* 1057
Demand Signals for Urban Drainage and Flood Control Projects
– *Neil S. Grigg and Harold A. Vance* 69
Development of Federal Reserve Rights
– *John W. Bird* 837

A Digital Model Applied to Ground Water Recharge and Management
– *Chin Y. Lee, A. Raziq Qazi, and Jeris A. Danielson* 514
A Digital Overlay Technique for Evaluation of Potential Infiltration and Recharge
– *Melvin W. Anderson and Ronald F. Giovannelli* 93
Dissolved Oxygen in Intragravel Water of Three Tributaries to Redwood Creek, Humboldt County, California
– *Paul F. Woods* 105

Economics of Controlling Natural Salt Sources in the Arkansas River Basin
– *Kent W. Olson* 294
The Economic Effects of Changes in Water Use in the Tucson Basin, Arizona
– *Adrian H. Griffin, James C. Wade, and William E. Martin* 849
An Economist's View of Demand Projections Considering Conservation (Report)
– *W. Douglas Morgan* 941
The Effect of Data Independence in Model Calibration and Model Testing
– *Michael L. Shrader, Richard H. McCuen, and Walter J. Rawls* 49
Effect of Filtration Pressure on Analyses for Chlorophyll (Report)
– *Bruce W. Lium and W. Thomas Shoaf* 359
Discussion: "Effect of Price on the Residential Demand for Water Within an Agency," by Alexander E. Cassuto and Stuart Ryan
– *C. Edwin Young* 142
Reply to Discussion: "Effect of Price on the Residential Demand for Water Within an Agency," by C. Edwin Young
– *Alexander E. Cassuto and Stuart Ryan* 144
Effect of Urbanization on Alternative Flood Control Strategies
– *Richard C. Bost, Philip B. Bedient, and Peter G. Rowe* 710
Effectiveness of DuPont Typar Sheeting in Controlling Macrophyte Regrowth After Overwinter Drawdown (Report)
– *G. Dennis Cooke and Mark E. Gorman* 353
Effects of Decreasing Water Depths on the Sedimentation Rate of Illinois River Bottomland Lakes (Report)
– *Donald W. Steffeck, Fred L. Paveglio, Jr., Frank C. Bellrose, and Richard E. Sparks* 553
Effects of a North Central Washington Wildfire on Runoff and Sediment Production
– *J. D. Helvey* 627
The Effects of Recent Changes in Atmospheric Circulation on the Hydrology of the Kankakee River
– *Jerry M. Davis and John J. Hidore* 336
Effects of Water Drawdown on the Fauna in Small Cold Water Reservoirs
– *Mary E. McAfee* 690
Efficiency Reducing Nonpoint Phosphorus Loads to Lakes and Reservoirs
– *Clayton W. Ogg, Ralph Heimlich, and Harry Pionke* 967
Energy, Environmental, and Economic Implications of Some Recent Alberta Water Resources Projects
– *Marshall Gysi* 676
Energy and Water Conservation Strategies in Irrigated Agriculture
– *Ronald L. Ritschard and Karen Tsao* 340
Environmental Impact of Channel Modification
– *Russell Schoof* 697
Estimating Irrigation Water Use Through Selective Monitoring: A North Florida Case Study
– *Timothy Wyant and John Shoemyen* 1074
Estimation of Primary Productivity in Aquatic Systems Using Free Oxygen Measurements (Report)
– *R. Lingeman and S. Vermij* 745
Eutrophication Measures for Small Lake Water Quality Management
– *James Ciecka, Robert Fabian, and Dan Merilatt* 681
Evaluation of Practices in Water Supply Forecasting
– *Mark E. Hawley, Richard H. McCuen, and Ronald E. Moreland* 271
An Ex Post Analysis of the Uncompahgre Project
– *William H. Sander III* 189

Factors Affecting Salinity Reduction in Lake Tarpon, Pinellas County, Florida
– *P. M. Dooris and L. F. Bartos* 203
Federal Subsidy of Irrigation Development
– *J. B. Wyckoff* 312

Financing Federal Water Development Projects and Sharing the Costs
– *Richard M. Wheeler, Jr., Leo M. Eisel, and Gerald D. Seinwill* 326
A Finite Element Model for the Migration of Leachate From a Sanitary Landfill in Long Island, New York – Part I: Theory
– *A. B. Gureghian, D. S. Ward, and R. W. Cleary* 900
Flood Hazard Identification and Flood Plain Management on Alluvial Fans
– *Lawrence M. Magura and Darrel E. Wood* 56
Flooding Problems in a Small Urban Watershed – Doan Brook, Cleveland, Ohio
– *Steve J. Nacht* 401
Floodplain Delineation: An Economic Approach
– *William C. Hughes* 267
Floodplain Management Needs Peculiar to Arid Climates
– *L. Douglas James, Dean T. Larson, Daniel H. Hoggan, and Terrence F. Glover* 1020
Forested Wetlands in Eastern Connecticut: Their Transition Zones and Delineation
– *P. H. Anderson, M. W. Lefor, and W. C. Kennard* 248
Friction Slope Models for M2 Profiles
– *Ronald A. Chadderton and Arthur C. Miller* 235

Gage Density and Location for Estimating Mean Annual Precipitation in Mountainous Areas
– *Myron Molnau, Walter J. Rawls, David L. Curtis, and C. C. Warnick* 428
Graduate Training in Water Track Environmental Engineering: Results of a Survey of Employers
– *Roger D. Hansen, Michael F. Torpy, Michael Kemp, and David Mills* 862
A Ground Water Resources Study of a Pacific Ocean Atoll – Tarawa, Gilbert Islands
– *J. W. Lloyd, J. C. Miles, G. R. Chessman, and S. F. Bugg* 646
Growth Inhibition of *Hydrilla Verticillata* by Selected Lake Sediment Extracts
– *P. M. Dooris and D. F. Martin* 112

Discussion: "Hierarchical Diversity of Communities of Aquatic Insects and Fishes," by Roger L. Kaesler and Edwin E. Herricks
– *David L. Lenat and David L. Penrose* 361
Reply to Discussion: "Hierarchical Diversity of Communities of Aquatic Insects and Fishes," by David L. Lenat and David L. Penrose
– *Roger L. Kaesler and Edwin E. Herricks* 366
A Historical Jewelpiece – Discovery of the Millennium Hydrologic Works of Karaji (Report)
– *Hormoz Pazwash and Gus Mavrigian* 1094
Household Water Use: Technological Shifts and Conservation Implications
– *Rodney L. Clouser and William L. Miller* 453
Hydrogeologic Evaluation of Wetland Basins for Land Use Planning
– *Arnold L. O'Brien and Ward S. Motts* 785
Hydrologic Effects From Changes in Ground Water Pumpage
– *Marvin V. Damm* 907
Hydrologic Effects of the Flood Abatement Program in Southwestern Oklahoma
– *R. R. Schoof, W. O. Thomas, Jr., and W. M. Boxley* 348

Identification of Training Needs for Public Participation Responsibilities
– *Madge O. Ertel* 300
Impact of Flood Hazard on Residential Property Values in Galt (Cambridge), Ontario
– *Marion Babcock and Bruce Mitchell* 532
Impact of Mining Activities on Water Quality in Western North Carolina
– *Alfred M. Duda and David L. Penrose* 1034
Inertia and Recovery: An Approach to Stream Classification and Stress Evaluation
– *Jay R. Stauffer, Jr. and Charles H. Hocutt* 72
Influence of Vegetation, Rock Cover, and Trampling on Infiltration Rates and Sediment Production
– *Manouchehr Dadkhah and Gerald F. Gifford* 979
Input-Output and Benefit-Cost Analysis for Water Resource Development Projects
– *Richard T. Clark* 36
Input/Output Models as Decision Aids for Lake Restoration
– *Paul D. Uttormark and Mark L. Hutchins* 494
Institutional Analysis Criteria for Water Supply Planning
– *Gary R. Minton, Richard Williams, and Thomas Murdock* 486

Integrated Planning of Rural Water Supply and Sanitation
– *Edmundo S. Degoma, Chongrak Polprasert, and B. N. Lohani* 408
An Interactive Simulation of Pumped Storage Reservoir Systems
– *W. F. Calhoun, E. F. Benfield, and D. N. Contractor* 63
International Decade on Drinking Water and Sanitation (Report)
– *John W. McDonald, Jr.* 356
Discussion: "Irrigation Planning Based on Water Deficits," by Janusz R. Rydzewski and Saeed Nairizi
– *Richard H. Cuenca* 558
Irrigation Water and Surface Runoff Quality and Quantity in Carson Valley, Nevada
– *J. C. Guitjens and W. W. Miller* 459
Irrigator Involvement in the Implementation of Agricultural Nonpoint Source Pollution Control Programs
– *Robert G. Evans, Wynn R. Walker, and Gaylord V. Skogerboe* 133

Lake Level Drawdown as a Macrophyte Control Technique
– *G. Dennis Cooke* 317
A Lumped Approach to the Inverse Problem in Ground Water Hydrology
– *Irfan A. Khan* 866

Management Model for Controlling Nitrate Contamination in the New Jersey Pine Barrens Aquifer
– *George J. Moosburner and Eric F. Wood* 971
Many Resources, Many Uses: A System Analysis Approach to Renewable Resource Development
– *Peter G. Ashton, James B. Pickens, Coryell Ohlander, and Bruce Benninghoff* 738
MAPS – A Planning Tool for Corps of Engineers Regional Water Supply Studies
– *Thomas M. Walski* 215
Mathematical Simulations of the Toccoa Falls, Georgia, DampBreak Flood
– *Larry F. Land* 1041
Metabolic Responses of Aquatic Bacterial Populations to Selected Insecticides (Report)
– *H. E. Murray and R. K. Guthrie* 749
A Method for Estimating Peak Water Demand of Multifamily Residences
– *B. Bobee, P. Boucher, and H. Demard* 729
Modeling the Environmental Effects of a Navigation Channel in a Tidal Bay
– *Philip B. Bedient, Rosine W. Hall, and Charles J. Newell* 881
Modeling a Sociological-Hydrologic Flood Control Decision System
– *Wade H. Andrews, J. Paul Riley, and Malcolm B. Masteller* 194
Modifying Automated Pumping Samplers for Use in Small Mountain Streams (Report)
– *Robert L. Beschta* 137
A Municipal Water Supply Investment Problem in Rhode Island
– *Richard Frye and James W. McFarland* 31

A New Method for Sampling Snow Melt and Rainfall in Forests
– *J. D. Helvey and W. B. Fowler* 938
Normalized Agricultural Prices and Water Resources Planning
– *Jon R. Miller* 471
Nutrient Content of Crop Canopy Throughfall Precipitation in Eastern South Dakota
– *E. M. White* 1102
Nutrient and Heavy Metal Transport Capabilities of Sediment in the Southwestern United States
– *James R. Gosz, Carleton S. White, and Peter F. Ffolliott* 927

Observations on Kinematic Response in Urban Runoff Models
– *David F. Kibler and Gert Aron* 444
Operational Applications of Satellite Snow Cover Observations
– *Albert Rango* 1066
Optimal Reservoir Management and Crop Planning Under Deterministic and Stochastic Inflows
– *C. C. Maji and Earl O. Heady* 438

Peak Period Design Standards for Small Western U.S. Water Supply Systems
– *Trevor C. Hughes* 661

Percolate Water and Bromide Movement in the Root Zone of Effluent Irrigation Sites
– *Larry C. Tennyson and Carl D. Settergren* 433
Primary and Secondary Impacts of a Water Resource Development Project
– *Roger B. Long* 1002
Problems of Public Access to Water in Texas Lakes and Streams
– *Otis W. Templer* 668
Discussion: "Procedure for the Economic Evaluation of Water Networks' Parameters," by Gideon Oron and David Karmeli
– *Thomas M. Walski* 365
Reply to Discussion: "Procedure for the Economic Evaluation of Water Networks' Parameters," by Thomas M. Walski
– *Gideon Oron and David Karmeli* 756
Projected Effects of Energy Policies on Agricultural Water Use and Irrigation
– *Earl O. Heady, Burton C. English, and Dan Dvoskin* 1012
Public Attitudes in Massachusetts Toward the Recreational Use of Domestic Water Supply Reservoirs
– *Walter H. Bumgardner, Lawrence R. Klar, Jr., and Aldo Ghirin* 279
Public Expenditure Programs in Appalachia and Their Impact on Regional Employment
– *Ung Soo Kim* 804

Quality of Water and Bottom Sediments in the Trinity River
– *Syed R. Qasim, Andrew T. Armstrong, John Corn, and Betty L. Jordan* 522

Rates of Recent Sedimentation in Lake Pepin
– *J. Roger McHenry, Jerry C. Ritchie, and Charles M. Cooper* 1049
Recreational Enhancement of High Country Water Supply Reservoirs
– *John W. Labadie, John M. Shafer, and Robert Aukerman* 477
The Red River Flood Control System and Recent Flood Events
– *W. F. Rannie* 207
Reservoir Sedimentation and Its Causes in Illinois
– *John B. Stall and Ming T. Lee* 874
Reservoir Sedimentation With Random Deposits
– *Huynh Ngoc Phien, Anat Arbhabhirama, and Pinit Chenyapanich* 818
Residual Power and Economic Feasibility of a Solar Powered Irrigation System
– *Donald E. Agthe and Dennis L. Larson* 1080
A Retrospective Benefit-Cost Analysis of Water Resource Projects in the Cumberland River Basin
– *W. Joseph Martin and Edward L. Thackston* 1006
Reuse of Power Plant Cooling Water for Irrigation
– *W. A. Jury, H. J. Vaux, Jr., and L. H. Stolzy* 830
Ridge Regression Techniques Applied to Landsat Investigation of Water Quality in Lake Okeechobee
– *S. F. Shih and J. C. Gervin* 790

Sampling Frequency Selection for Regulatory Water Quality Monitoring
– *J. C. Loftis and R. C. Ward* 501
SEARCH: A Gaged Watershed Inventory
– *Peter E. Black* 894
Seepage Flow Into Florida Lakes
– *Charles R. Fellows and Patrick L. Brezonik* 635
Selecting Groups of Fish to Optimize Acquisition of Information on Thermal Discharges (Report)
– *Jay R. Stauffer, Jr., Roger L. Kaesler, John Cairns, Jr., and Kenneth L. Dickson* 1097
Smoothed Data and Gradients Using Sliding Polynomials With Optional Controls
– *W. M. Snyder* 22
Soil Conservation Service Runoff Curve Number Estimates From Landsat Data
– *R. B. Slack and R. Welch* 887
Spatial Variability of Rangeland Infiltration Rates (Report)
– *Everett P. Springer and Gerald F. Gifford* 550
A Spatially Responsive Hydrologic Model to Predict Erosion and Sediment Transport
– *B. B. Ross, V. O. Shanholtz, and D. N. Contractor* 538
SPNM, A Model for Predicting Sediment, Phosphorus, and Nitrogen Yields From Agricultural Basins
– *J. R. Williams* 843

Strategies to Control Nonpoint Source Water Pollution
– *J. Jeffrey Peirce* 220
Stratification Variability in Three Morphometrically Different Lakes Under Identical Meteorological Forcing
– *Dennis E. Ford and H. Stefan* 243
Storm Water Management: The Concept and Its Application
– *Thomas N. Debo* 654
Suitability of Some Fresh Water and Marine Fishes for Use With a Minicomputer Interfaced Biological Monitoring System
– *John Cairns, Jr., Kenneth W. Thompson, J. David Landers, Jr., Michael J. McKee, and Albert C. Hendricks* 421
Summer Flooding at Chicago and Possible Relationships to Urban-Increased Heavy Rainfall
– *Stanley A. Changnon, Jr.* 323
Surface Heat Loss and Frazil Ice Production in the St. Lawrence River
– *Hung Tao Shen* 996

Discussion: "Temporal Variation in the Nutrient Export of Rivers Draining into the Bay of Quinte, Ontario, Canada," by C. K. Minns and M. G. Johnson
– *Daniel A. Cluis* 363
Reply to Discussion: "Temporal Variation in the Nutrient Export of Rivers Draining into the Bay of Quinte, Ontario, Canada," by Daniel A. Cluis
– *C. K. Minns* 368
Theory and Reality in Allocating Federal Resources to Water Resources Development
– *Robert C. Waters* 256
A Tree-Ring Reconstruction of Drought in Southern California
– *David M. Meko, Charles W. Stockton, and William R. Boggess* 594

The Use of Biological Criteria in Environmental Policy
– *Peter N. Nemetz and Herbert D. Drechsler* 1084
The Use of Landsat Imagery in Ground Water Exploration
– *Kennith E. Foster, Robert A. Schowengerdt, and Charles E. Glass* 934
Using Artificial Streams to Evaluate Perturbation Effects on Aufwuchs Structure and Function
– *J. R. Clark, J. H. Rogers, Jr., K. L. Dickson, and J. Cairns, Jr.* 100

Waste Water Disposal Through a Coastal Aquifer
– *Irfan A. Khan* 608
The Water Balance in Newfoundland
– *W. H. Yoxall* 1030
Water Budget Computation for a Shallow Lake – Lake Okeechobee, Florida
– *S. F. Shih* 724
Water Constraints on Emerging Energy Production
– *Norman F. Hampton and Bennett Y. Ryan, Jr.* 508
Water Data and Services Available From Participants in the National Water Data Exchange
– *Melvin D. Edwards* 1
Water Management in Ontario
– *Stefan E. Salbach and R. Peter Dennis* 621
Water Quality Allocated Cost for Multipurpose Reservoirs
– *Richard J. Heggen* 127
Water Quality Analysis of the Halifax River, Florida
– *James E. Scholl, James P. Heaney, and Wayne C. Huber* 285
Water Quality Modeling in the Upper Reaches of the Chowan River
– *D. N. Contractor and P. H. King* 118
Water Quality Patterns During a Storm on a Mall Parking Lot
– *Peter E. Black* 615
Water Quality Projections: Preimpoundment Case Study
– *Richard H. McCuen, Darryl E. Cook, and Robert L. Powell* 79
Water Quality Trap Efficiency of Storm Water Management Basins
– *Richard H. McCuen* 15
Water Resources Investigations in West Central Iran Using Landsat Data
– *Manouchehr S. Akhavi* 987

Water Rights, Allocation, and Conflicts in the Tongue River Basin, Southeastern Montana
– *David H. Hickcox* 797
Water Savings From Lawn Watering Restrictions During a Drought Year, Fort Collins, Colorado
– *Raymond L. Anderson, Thomas A. Miller, and Monty C. Washburn* 642
Watersheds as the Basic Ecosystem: This Conceptual Framework Provides a Basis for a Natural Classification System
– *Frederick B. Lotspeich* 581

AUTHOR INDEX TO VOLUME 16 – 1980

Adams, Barry J. 601
Agthe, Donald E. 1080
Akhavi, Manouchehr S. 987
Anderson, Melvin W. 93
Anderson, P. H. 248
Anderson, Raymond L. 642
Andrews, Wade H. 194
Arbhabhirama, Anat 818,856
Armstrong, Andrew T. 522
Aron, Gert 444
Ashton, Peter G. 738
Aukerman, Robert 477

Babcock, Marion 532
Bartos, L. F. 203
Bedient, Philip B. 710,881
Bellrose, Frank C. 553
Benfield, E. F. 63
Benninghoff, Bruce 738
Beschta, Robert L. 137
Bhaskar, Nageshwar Rao 587
Bianchi, William C. 702
Bird, John W. 837
Black, Peter E. 615,894
Bobee, B. 729
Boggess, William R. 594
Bost, Richard C. 710
Boucher, P. 729
Boxley, W. M. 348
Bragg, Jimmy D. 86
Brezonik, Patrick L. 635
Bugg, S. F. 646
Bumgardner, Walter H. 279
Burges, Stephen J. 758

Cairns, Jr., John . . 100,261,421,1097
Calhoun, W. F. 63
Cassuto, Alexander E. 144
Chadderton, Ronald A. . . . 235,752
Changnon, Jr., Stanley A. 323
Chenyapanich, Pinit 818
Chessman, G. R. 646
Ciecka, James 681
Clark, J. R. 100
Clark, Richard T. 36
Cleary, R. W. 900
Clouser, Rodney L. 453
Cluis, Daniel A. 363
Contractor, D. N. 63,118,538
Cook, Darryl E. 79
Cooke, G. Dennis 317,353,921
Cooper, Charles M. 1049
Corn, John 522
Cronin, D. L. R. 414
Cuenca, Richard H. 558
Curtis, David L. 428

Dadkhah, Manouchehr 979
Damm, Marvin V. 907
Danielson, Jeris A. 514
Davenport, David C. 717
Davis, Jerry M. 336
Debo, Thomas N. 654
Degoma, Edmundo S. 408
DeGraeve, G. Michael 41
Demard, H. 729
Dennis, R. Peter 621
Dickson, Kenneth L. 100,1097
Dooris, P. M. 112,203
Drechsler, Herbert D. 1084
Duda, Alfred M. 1034
Duffield, John W. 226
Dvoskin, Dan 1012

Edwards, Melvin D. 1
Eisel, Leo M. 326
English, Burton C. 1012
Ertel, Madge O. 300
Evans, Robert G. 133

Fabian, Robert 681
Fellows, Charles R. 635
Ffolliott, Peter F. 927
Flack, J. Ernest 139
Ford, Dennis F. 243
Foster, Kennith E. 934
Fowler, W. B. 938
Frye, Richard 31

Garcia-Bengochea, J. I. 812
Gervin, J. C. 790
Ghirin, Aldo 279
Gifford, Gerald F. 550,979
Giovannelli, Ronald F. 93
Glass, Charles E. 934
Glover, Terrence F. 1020
Gorman, Mark E. 353
Gosz, James R. 927
Griffin, Adrian H. 849
Grigg, Neil S. 69
Groeneveld, Leonard 755
Gruber, David 261
Guitjens, J. C. 459
Gureghian, A. B. 900
Guthrie, R. K. 749
Gysi, Marshall 676

Hagan, Robert M. 717
Hall, Rosine W. 881
Hampton, Norman F. 508
Hansen, Roger D. 862
Hawley, Mark E. 271,914
Heady, Earl O. 438,1012

Heaney, James P. 285
Heggen, Richard J. 127
Heimlich, Ralph 967
Helvey, J. D. 627,938
Hendricks, Albert C. 421
Herricks, Edwin E. 366
Hickcox, David H. 797
Hidore, John J. 336
Hocutt, Charles H. 72
Hoggan, Daniel H. 1020
Huber, Wayne C. 285
Hughes, Trevor C. 661
Hughes, William C. 267
Hutchins, Mark L. 494

James, L. Douglas 1020
Jordan, Betty L. 522
Jury, W. A. 830

Kaesler, Roger L. 366,1097
Karmeli, David 756
Kemp, Michael 862
Kennard, W. C. 248
Khan, Irfan A. 608,866
Klar, Jr., Lawrence R. 279
Kibler, David F. 444
Kim, Ung Soo 804
King, P. H. 118

Labadie, John W. 477
Land, Larry F. 1041
Landers, Jr., J. David 421
Larson, Dean T. 1020
Larson, Dennis L. 1080
Lee, Chin Y. 514
Lee, Ming T. 874
Lenat, David L. 361
Lefor, M. W. 248
Leich, Harold H. 556
Lingeman, R. 745
Lium, Bruce W. 359
Lloyd, J. W. 646
Loftis, J. C. 501
Lohani, B. N. 408
Long, Roger B. 1002
Lotspeich, Frederick B. 581

Magura, Lawrence M. 56
Maji, C. C. 438
Martin, D. F. 112
Martin, W. Joseph 1006
Martin, William E. 849
Masteller, Malcolm B. 194
Mavrigian, Gus 1094
McAfee, Mary E. 690
McCuen, Richard H. 15,49,79,
271,546,759,914

McDonald, Jr., John W. 356
McFarland, James W. 31
McHenry, J. Roger 1049
McMahon, T. A. 414
McKee, Michael J. 421
Mein, Russell G. 824
Meko, David M. 594
Merilatt, Dan 681
Miles, J. C. 646
Miller, Arthur C. 235,752
Miller, Jon R. 471
Miller, Thomas A. 642
Miller, W. W. 459
Miller, William L. 453
Mills, David 862
Minns, C. K. 368
Minton, Gary R. 486
Mitchell, Bruce 532
Molnau, Myron 428
Moosburner, George J. 971
Moreland, Ronald E. 271
Morgan, W. Douglas 941
Motts, Ward S. 785
Murdock, Thomas 486
Murray, H. E. 749

Nacht, Steve J. 401
Nemetz, Peter N. 1084
Newell, Charles J. 881
Nightingale, Harry I. 702
Nix, Joe F. 86
Novotny, Vladimir 1057

O'Brien, Arnold L. 785
Ogg, Clayton W. 967
Ohlander, Coryell 738
Olson, Kent W. 294
Oron, Gideon 756

Paveglio, Jr., Fred L. 553
Pazwash, Hormoz 1094
Peirce, J. Jeffrey 220
Penrose, David L. 361,1034
Phien, Huynh Ngoc 818,856
Pickens, James B. 738
Pionke, Harry 967
Polprasert, Chongrak 408
Powell, Robert L. 79

Qasim, Syed R. 522
Qazi, A. Raziq 514

Rango, Albert 914,1066
Rannie, W. F. 207
Rawls, Walter J. 49,428
Ritchie, Jerry C. 1049
Riley, J. Paul 194
Ritschard, Ronald L. 340
Rogers, Jr., J. H. 100
Ross, B. B. 538
Ross, Landon T. 755
Rowe, Peter G. 710
Ryan, Jr., Bennett Y. 508
Ryan, Stuart 144

Salbach, Stefan E. 621
Sander III, William H. 189
Scholl, James E. 285
Schoof, Russell R. 348,697
Schowengerdt, Robert A. 934
Seinwill, Gerald D. 326
Settergren, Carl D. 433
Shafer, John M. 477
Shanholtz, V. O. 538
Shen, Hung Tao 996
Shih, S. F. 724,790
Shoaf, W. Thomas 359
Shoemyen, John 1074
Shrader, Michael L. 49
Singh, Udai P. 463,812
Skogerboe, Gaylord V. 133
Slack, R. B. 887
Snyder, W. M. 22
Sparks, Richard E. 553
Springer, Everett P. 550
Sproul, C. Ross 812
Stall, John B. 874
Stauffer, Jr., Jay R. 72,1097
Stefan, H. 243
Steffeck, Donald W. 553
Stockton, Charles W. 594
Stolzy, L. H. 830

Templer, Otis W. 305,668
Tennyson, Larry C. 433
Thackston, Edward L. 1006
Thomas, Jr., W. O. 348
Thompson, Kenneth W. 421
Thornton, Kent W. 86
Torpy, Michael F. 862
Tsao, Karen 340

Uttormark, Paul D. 494

Vance, Harold A. 69
Vaux, Jr., H. J. 830
Vermij, S. 745

Wade, James C. 849
Walker, Wynn R. 133
Walski, Thomas M. 215,365
Ward, D. S. 900
Ward, R. C. 501
Ward, Ronald W. 41
Warnick, C. C. 428
Washburn, Monty C. 642
Waters, Robert C. 256
Welch, R. 887
Wheeler, Jr., Richard M. 326
White, Carleton S. 927
White, E. M. 1102
Whitlatch, Jr., Elbert E. 587
Williams, J. R. 843
Williams, Richard 486
Wood, Darrel E. 56
Wood, Eric F. 971
Woods, Paul F. 105
Wyant, Timothy 1074
Wyckoff, J. B. 312
Wycoff, Ronald L. 463

Young, C. Edwin 142
Yoxall, W. H. 1030

Zukovs, George 601